

Polycom® IP Telephones

Quick Reference Guide

The Power of a Network. The Simplicity of a Phone.

Why Polycom VoIP?

- Polycom is the *leading independent supplier* of standards-based IP telephones.
- To offer you a *choice of end-to-end, integrated VoIP solutions*, Polycom ensures that your Polycom phones are fully interoperable with leading standards-based IP PBX and Softswitch platforms¹.
- Polycom's *comprehensive product portfolio* encompasses the SoundPoint® IP family of desktop phones, the attendant console based on the SoundPoint IP 601/650 and Expansion Module, and the SoundStation® IP 4000 conference phone.

Features and Benefits

Outstanding Voice Quality



- Polycom's revolutionary HD Voice technology delivers voice communications of life-like interactivity, richness, and clarity*:
 - Exceptional sound quality, echo cancellation, and noise reduction
 - Support of G.722 wideband codec*
 - Interactive two-way conversations that are as natural as being there
 - Polycom full-duplex² speakerphones are compliant with IEEE 1329 standards
- Network-related provisioning for superb voice quality:
 - Quality of Service – IEEE 802.1 p/Q, Layer 3 TOS, and DSCP³
 - Dynamic jitter buffer
 - Sophisticated packet loss concealment algorithms

Enhanced Call Handling, Security, and Advanced Applications^{3, 4}

- Support of up to 24 simultaneous calls on up to 12 lines
- Shared call / bridged line appearance
- Busy Lamp Field (BLF)⁴
- Multiple call- and flexible line appearances
- TLS security³, encrypted configuration files³, HTTPS secure provisioning⁷, support of "signed" software executables⁷, URL syntax for boot server address⁷ and digest authentication
- Microsoft® LCS 2005 interoperability for telephony and presence³
 - Compatibility with Microsoft Office Communicator and Windows® Messenger 5.1 clients

Ease of Use

- Polycom IP phones provide an easy transition from legacy PBX and Key Systems to the world of IP telephony:
 - Intuitive user interface
 - Large, high-quality LCD displays with up to 320x160 pixel resolution
 - A combination of up to 26 dedicated hard keys and up to 4 context-sensitive soft keys for one-touch access to essential features

Efficient Installation, Provisioning, and Upgrades

- Polycom IP phones are designed to make installation, configuration, and upgrades as simple and efficient as possible:
 - Centralized provisioning and upgrades from an FTP, TFTP, HTTP⁷, or HTTPS⁷ server
 - Support of provisioning server redundancy³
 - Manual or DHCP set-up. Web configuration
 - Dual switched 10/100 Mbps Ethernet ports for LAN and PC connection (SoundPoint IP only)
 - Choice of powering options: AC adapter or Power over Ethernet

Investment Protection

- Polycom IP phones can be upgraded to new software and firmware in the field so as to consistently meet your business communication needs as protocols develop and standards evolve
- Polycom IP phones are standards-based, so there is no need to replace them when upgrading or replacing your standards-based call server

* Currently available on SoundPoint IP 650 only.

¹ Please visit <http://www.polycom.com/techpartners.htm> for a full list of supported IP PBX and Softswitch solutions.

² The SoundPoint IP 301 has a monitor-only speakerphone.

³ Requires SIP version 2.0.x or higher.

⁴ Most features must be supported by the call server. Please contact your IP PBX / Softswitch vendor or service provider for a list of supported features.

⁵ Not all Polycom VoIP phones support all features. Please refer to the product documentation (user guides and data sheets) for details.

⁷ Requires BootROM 3.0.x or higher.

Polycom VoIP Product Line At-a-Glance



SoundPoint IP 301: High-quality two-line desktop IP telephone that delivers remarkable value

- Positioning
 - Deployment focus: common areas, warehouse, dorm rooms
 - Supported call traffic: low
 - Feature set: basic
- 2 lines
- Two-port 10/100 Ethernet switch
- PoE support with optional cable
- Monitor-only speakerphone
- 4 line x 20 character-based LCD
- 12 dedicated hard keys, 3 context-sensitive soft keys
- SIP, MGCP



SoundPoint IP 430: Full-duplex speakerphone, built-in PoE, and a graphical LCD in a two-line telephone

- Positioning
 - Deployment focus: cubicle
 - Supported call traffic: low
 - Feature set: basic-to-mid-range
- 2 lines
- Two-port 10/100 Ethernet switch
- Full-duplex speakerphone featuring Polycom Acoustic Clarity Technology
- Built-in, auto-sensing PoE (IEEE 802.3af)
- 132 x 46 graphical LCD
- 16 dedicated hard keys, 4 context-sensitive soft keys
- SIP



SoundPoint IP 501: Three-line desktop IP telephone that delivers exceptional voice quality

- Positioning
 - Deployment focus: office, SOHO, hotel room
 - Supported call traffic: medium
 - Feature set: mid-range
- 3 lines
- Two-port 10/100 Ethernet switch
- Full-duplex speakerphone featuring Polycom Acoustic Clarity Technology
- 160 x 80 grayscale graphical LCD
- 24 dedicated hard keys, 4 context-sensitive soft keys
- SIP, MGCP



SoundPoint IP 601: Six-lines, advanced functionality, and Expansion Module support

- Positioning
 - Deployment focus: executive office, telephone attendant's desk
 - Supported call traffic: high
 - Feature set: mid-range-to-advanced
- 6 lines (standalone) / 12 lines (with the Expansion Module)
- Two-port 10/100 Ethernet switch
- Built-in, auto-sensing PoE (IEEE 802.3af and Cisco Inline Power)
- Full-duplex speakerphone featuring Polycom Acoustic Clarity Technology
- 320 x 160 grayscale graphical LCD
- 26 dedicated hard keys, 4 context-sensitive soft keys
- Support of up to three SoundPoint IP Expansion Modules
- XHTML microbrowser
- SIP, MGCP



SoundPoint IP 650: High-performance IP phone with HD Voice

- Positioning
 - Deployment focus: executive office, telephone attendant's desk
 - Supported call traffic: high
 - Feature set: advanced
- 6 lines (standalone) / 12 lines (with the Expansion Module)
- Two-port 10/100 Ethernet switch
- Built-in, auto-sensing PoE (IEEE 802.3af)
- Polycom HD Voice technology for life-like sound quality for all audio paths
- 320 x 160 backlit grayscale graphical LCD
- 26 dedicated hard keys, 4 context-sensitive soft keys
- Support of up to three SoundPoint IP Expansion Modules
- XHTML microbrowser
- USB port for future applications
- SIP



SoundPoint IP Expansion Module: Turn the SoundPoint IP 601/650 into a high-performance attendant console

- Positioning
 - Deployment focus: telephone attendant's desk, informal call center
 - Supported call traffic: very high
- 14 illuminated multifunctional keys configurable as a line appearance, or a speed-dial with busy lamp field (BLF) functionality
- 160 x 320 grayscale graphical LCD
- Plug-and-play – slide it onto the host phone and it works
- Cord-free, no AC adapter is required – power and signaling are provided by the host SoundPoint IP 601/650 phone
- Hot-swappable - attach / detach the Expansion Module to / from the idle host phone at any time



SoundPoint IP 4000: A clear IP conferencing solution

- Full-duplex conference phone featuring Polycom Acoustic Clarity Technology
- 10-ft. microphone coverage expandable to cover rooms up to 20 ft. x 30 ft. with optional extension microphones
- PoE support with optional PoE Interface Module
- Backlit, graphical 248 x 68 pixel LCD
- SIP

* Subject to change without notice

© 2006 Polycom, Inc. All rights reserved.
Polycom, the Polycom logo, SoundPoint and SoundStation are registered trademarks of Polycom, Inc. in the U.S. and various countries.
All other trademarks are the property of their respective companies. Specifications are subject to change without notice.



Polycom Headquarters:

4750 Willow Road, Pleasanton, CA 94588 (T) 1.800.POLYCOM (765.9266) for North America only.
For North America, Latin America and Caribbean (T) +1.925.924.6000, (F) +1.925.924.6100

Polycom EMEA:

270 Bath Road, Slough, Berkshire SL1 4DX, (T) +44 (0)1753 723000, (F) +44 (0)1753 723010

Polycom Asia Pacific:

Polycom Hong Kong Ltd., Rm 1101 MassMutual Tower, 38 Gloucester Road, Wanchai, Hong Kong, (T) +852.2861.3113, (F)+852.2866.8028

Rev. 09/06